

For Reference

NOT TO BE TAKEN FROM THIS ROOM

Ex LIBRIS
UNIVERSITATIS
ALBERTAE NSIS





Digitized by the Internet Archive
in 2019 with funding from
University of Alberta Libraries

<https://archive.org/details/Salle1983>

THE UNIVERSITY OF ALBERTA

RELEASE FORM

NAME OF AUTHOR: Margaret M. de la Salle

TITLE OF THESIS: Structuring Self-Image With Children

DEGREE FOR WHICH THESIS WAS PRESENTED: MASTER OF EDUCATION

YEAR THIS DEGREE GRANTED: SPRING, 1983

Permission is hereby granted to THE UNIVERSITY OF ALBERTA LIBRARY to reproduce single copies of this thesis and to lend or sell such copies for private, scholarly or scientific research purposes only.

The author reserves other publication rights, and neither the thesis nor extensive extracts from it may be printed or otherwise reproduced without the author's written permission.

THE UNIVERSITY OF ALBERTA
STRUCTURING SELF-IMAGE WITH CHILDREN

by

Margaret M. de la Salle

A THESIS

SUBMITTED TO THE FACULTY OF GRADUATE STUDIES AND RESEARCH
IN PARTIAL FULFILMENT OF THE REQUIREMENTS FOR THE DEGREE
OF MASTER OF EDUCATION

IN

COUNSELLING PSYCHOLOGY

DEPARTMENT OF EDUCATIONAL PSYCHOLOGY

EDMONTON, ALBERTA

SPRING, 1983

THE UNIVERSITY OF ALBERTA

FACULTY OF GRADUATE STUDIES AND RESEARCH

The undersigned certify that they have read, and recommend to the Faculty of Graduate Studies and Research, for acceptance, a thesis entitled "Structuring Self-Image with Children" submitted by Margaret M. de la Salle in partial fulfilment of the requirements for the degree of Master of Education.

ABSTRACT

The purpose of this study was to adapt a Structuring Self-Image technique, based on Neurolinguistic Programming principles, for use with children referred for adjustment problems and to assess the effect of the program on the children's personalities. The Piers-Harris Children's Self-Concept Scale and the children's Personality Questionnaire were administered to six female subjects, ages 7 to 11 years, before and after 5 weekly group sessions. Six hypotheses were formulated and the means, standard deviations, and correlated 't' tests were computed on the scale scores. The only significant difference ($p . 025$) occurred in emotional stability. There were no significant changes in self-concept, willingness to act with the group, outgoing behavior, self-assuredness, or excitability. Limitations of the study, possible reasons for significant increases in emotional stability and lack of significance on the other 5 variables, and clinical observations of the program were discussed and suggestions were made for future research.

ACKNOWLEDGMENTS

I wish to express my appreciation to Dr. Paul Koziey, Thesis Supervisor, for his guidance and encouragement throughout the study. I am also indebted to Dr. John Osborn for his valuable comments and suggestions.

Special thanks to Dr. Ted Aoki for his cooperation and support.

I would also like to thank my family and the many friends who have provided help, support, encouragement, and understanding on the way.

TABLE OF CONTENTS

CHAPTER	PAGE
1. INTRODUCTION.....	1
A. Background.....	1
B. Structuring Self-Image.....	4
11. LITERATURE REVIEW.....	8
A. Historical Review of Imagery.....	8
B. Review of Research on Imagery.....	9
C. Self-Image Change.....	12
D. Research in Neuro Linguistic Programming.....	14
E. Conclusions.....	14
111. METHODOLOGY AND DESIGN.....	16
A. Development of the Program.....	16
B. Hypotheses.....	17
C. Experimental Procedure.....	19
1. Sample.....	19
2. Design.....	20
3. Test Instruments.....	20
A. Piers-Harris Children's Self-Concept Scale.....	20
B. Children's Personality Questionnaire.....	21
4. Procedure.....	22
1V. RESULTS AND DISCUSSION.....	23

REFERENCES	32
APPENDIX A: Neuro Linguistic Programming Research in Process....	34
APPENDIX B: Piers-Harris Children's Self-Concept Scale.....	39
APPENDIX C: Children's Personality Questionnaire.....	43
APPENDIX D: Description of CPQ Factors.....	51
APPENDIX E: Gordon's Test of Imagery Control.....	53
APPENDIX F: Responses to Gordon's Test of Imagery Control.....	54
APPENDIX G: Description of Sessions.....	55

LIST OF TABLES

TABLE	DESCRIPTION	PAGE
1.	Planned Comparison of Pretest and Posttest Piers-Harris Children's Self-Concept Scale and Children's Personality Questionnaire Test Scores.	23
2.	Comparison of Pretest and Posttest Means and Standard Deviations of the Piers-Harris and Children's Personality Questionnaire Scores with Manual Norms	24

CHAPTER ONE

INTRODUCTION

A. Background

Research in imagery has expanded immeasurably over the last 30 years, as indicated by the numerous books dealing with this topic (Sheehan, 1972; Sommer, 1978; Singer, 1974; Richardson, 1969). Although the majority of studies deal with the use of imagery in such cognitive processes as perception, memory, and thinking, imagery is used extensively in promoting therapeutic personality change.

The major theories from Behaviorism to Existentialism make use of the person's ability to imagine herself/himself going through a variety of activities or scenes as part of the psychotherapeutic learning process. Mental rehearsal, where the person sees and feels herself/himself go through an activity, has been most effective in improving performance on physical tasks (Richardson, 1969; Marks, 1977; Anderson, 1980). A person's ability to use imagination has also been effective for conditioning responses (Leuba & Dunlop, 1951), controlling pain (Raphael, 1981), enhancing self-awareness (Wilkins, 1975), resolving psychological problems (Mook, 1975), reducing anxiety, and increasing positive self-regard (Morrison & Cometa, 1980). Although the majority of studies deal with adult subjects, imagery has been used effectively for decreasing acting out behavior in latency age males (Scheidler, 1972), increasing self-awareness in teenagers and young adults (Kelly, 1972), and

enhancing self-concept in teenagers (Sarkisian, 1974; Harris, Nolte & Nolte, 1980; Reardon & Tosi, 1977). The major theories that use imagery in therapy assume that imagining an event has a similar effect on the individual as experiencing the event (Mark, 1977; Sheikh & Panagiotou, 1975). This process of imagination requires access to and manipulation of all the sensory modalities.

Personality change necessitates a total, organismic change in meaning where past experiences are re-organized and new associations emerge (Erickson & Rossi, 1982). The new associations change the person's frame of reference, thereby changing their perception of a situation. Openness to new ways of learning occur when habitual patterns are disrupted and occur below the level of conscious awareness.

"And our main, very difficult learning we
achieve without knowing that we are achieving
those learnings." (Erickson & Rossi, 1982, p.120)

The above quote, by M.H. Erickson, refers to experiential learning which involves a total organismic change. Imagery may be a fundamental part of this total organismic learning process. The insights one gains using the verbal modality is less effective than the meaning gained through imagery (Shorr, 1974). Imagery bypasses the filtering of verbal thought processes, contains information not available in verbal thought, and is more closely associated with unconscious thought processes (Sheikh & Panagiotou, 1975).

Recently, a new movement developed in psychology which relies on the use of imagery for promoting personality change. Neuro Linguistic Programming, defined by Lankton (1980) as the study of the structure of subjective experience, has become increasingly more popular since its inception in 1975. The proponents of Neuro Linguistic Programming, beginning with Richard Bandler and John Grinder, developed a model of communication and behavior based on their study of successful therapists, such as Milton Erickson, Fritz Perls, and Virginia Satir. According to the model we translate what we experience through our senses into internal representations of the world. These internal representations become our reference points for relating with the world. Since the internal representation is a model of the world, not the real world, distortion of the real world can occur. When a distortion occurs, the person relates to the world and/or others as if the world was congruent with his internal representation of it. When this process of relating to a model rather than the actual world occurs, choices in communication and behavior become limited.

The model, or internal representation, is essentially the unique way an individual processes information internally. Since it is based on sensory experience, the structure of how an individual processes information internally can be recognized, based on the therapist's sensory experience of the client. Once the structure of that experience is known, various techniques are available for changing the structure. The person is then able to access alternate ways of relating to the situation. One

of the basic assumptions of Neuro Linguistic Programming is that there are positive resources or unconscious knowledge within the individual that can be accessed and it is this knowledge that will aide the client in producing change. Successful therapy will result in a change in the client's representation of the world, making his representation more congruent with his actual experience.

B. Structuring Self-Image

One technique for changing the client's model of the world, developed by Lankton (1980), involves a restructuring of the self-image. According to the model there are unconscious conditioned thought processes that mediate our sensory perception of a stimuli and the feeling associated with it. The unconscious thought processes are a series of past associations of images of what we have experiences through our senses and have now dropped into habitual, automatic ways of operating. The person continues to think about his past associations of images in habitual, automatic ways. This unconscious internal thought process is called Residual Image Thinking, defined by Lankton (1978) as;

"A memory that typically has the person represented as a feeling associated to the picture or sound of some event." (p.4)

According to Lankton, conditioned past associations of images or residual images guide one's behavior. These past associations are learned in the same way as routine tasks; that is, they are learned consciously and then drop into unconscious ways of

functioning. Residual images also have an interpersonal component and a feeling attached. Since residual image thinking is no longer operating at a conscious level, the person's choices for responding to the external stimuli is limited.

The underlying associations of images related to the self that are unconscious but mediate our behavior is called the Self-Image Thinking Structure. In many situations an individual's responses are accompanied by anxiety as a result of his/her habitual way of responding. Structuring the self-image is a technique for disrupting the underlying associations or residual images, thereby disrupting habitual patterns. The use of imagination to change self-image is the major component of the technique.

An individual's model of the world limits his/her choices when his/her representation of the world becomes impoverished (Bandler & Grinder, 1975). Analogously, the representation of self can also be impoverished, limiting the individual's choices in relating to particular situations. Disrupting the underlying conditioned associations will change the client's model or perspective and make it more congruent with actual experience, thereby increasing their choices in coping with stressful, anxiety provoking situations. Self-image is a reference point in relationships (Staats, 1979; Keen, 1975) and, therefore, central for any change to occur. In keeping with

Neuro Linguistic Programming principles, the self has positive resources for coping with situations, but the individual is unable to access these resources because of the negative feeling state associated with his/her self-image. The individual is only consciously aware of the stimuli and the feeling state. Disrupting those associations that limit the individual's choices and adding new, more productive associations should result in an increase in positive self-regard.

This study was an attempt to adapt Lankton's Structuring Self-Image technique for use with children between the ages of 9 and 12 years. Although the technique was developed for adults, the basic assumptions apply;

1. underlying associations of images related to self mediate behavior;
2. these images are below the level of awareness; and
3. they can be disrupted and replaced with positive associations.

The latency period (approximately 7 to 12 years) of development appears to be an ideal time for developing a positive self-concept. Although the child tends to be a literal thinker and be reality oriented, imaginative and creative processes flourish. At this stage of development, the child lacks the cognitive ability for inductive reasoning and is not motivated for deep insight (Schiffer, 1977). Lankton's technique does not require insight into the

causes of negative self-concept. The technique interferes with prior negative associations by consciously creating positive associations to self.

The use of imagery has been effective for enhancing self- concept during adolescence (Sarkisian, 1974; Harris, et al., 1980; Reardon & Tosi, 1977) and during adulthood (Morrison & Cometa, 1980), but there have been few systematic studies showing similar effects with children who are referred for adjustment problems. The purpose of this research is to conduct a preliminary investigation of the use of Lankton's Structuring Self-Image technique with children.

CHAPTER TWO

LITERATURE REVIEW

A. Historical Review of Imagery

Interest in imagery began with philosophers in their attempt to understand subjective experience. The increasing interest in Behaviorism in the 1920's and the Western emphasis on natural scientific methodology left the study of imagery to theoretical speculation and introspectionism. The subjective nature of imagery made it anathema to natural science. Although imagery continued to be used by clinicians, no systematic research was conducted in the West between 1920 and 1950 (Shorr, 1974).

It was also the Behaviorists who were instrumental in bringing imagery back into the domain of scientific manipulation (Shorr, 1974; Singer, 1975). Despite the theoretical assumptions of behaviorism, imagery is used extensively in Behavioral Therapies, such as, Systematic Desensitization, Emotive Imagery, Implosive Therapy, etc. Imagery is now used across a wide range of theoretical orientations from the structured behavioral approach to the classical psychoanalytic view (Strosahl & Ascough, 1981). Singer (1971) reviewed the different therapies using imagery and found 25 different approaches. Despite extensive use in therapy, he concluded that there were insufficient systematic studies on imagery

to warrant their use in clinical settings. This was based largely on his view that therapeutic techniques should be based on scientific principles. Singer's stress on measurement neglects the value experienced by clients in therapy. As Kisch and Kroll (1980) state:

"The application of scientific methodology to the evaluation of psychotherapy leads to an emphasis upon that which is measurable, although possibly not relevant, certain narrow parameters of effectiveness, and an ignoring of that which is most relevant, meaningfulness." (p.409)

B. Review of Research on Imagery

Research into imagery and mental events appears to have proliferated over the last decade. Although the focus tends to be on those aspects of imagery which account for change, it appears evident that the use of imagery is an important factor in personality change.

Richardson's (1966;1969) reviews of the research on mental practice indicates that the use of imagery improves performance on physical tasks. The ability to use the visual and kinaesthetic modalities are important factors as the person "sees and feels himself go through the activity" (p.56). Richardson concluded that the ability to image was an important variable in assessing the effectiveness of therapy. Although most studies emphasize visual imagery, there is sufficient evidence to indicate that a person's ability to imagine, regardless of the modality, it an

important factor for improving performance (Richardson, 1969; Marks, 1977; Anderson, 1980). The use of imagery has also been effective for improving learning and decision making, enhancing self-awareness, resolving psychological problems (Wilkins, 1976), developing personal meaning (Mook, 1975), reducing anxiety, and increasing positive self-regard (Morrison & Cometa, 1974).

One reason for the effectiveness of imagery in producing change resides in the ability of the individual to manipulate images and re-interpret experiences. As indicated by Morrison and Cometa (1974):

"change is an internal process of accomodation re-interpretation, and re-construing of one's self and one's world." (p.39)

The importance of imagery as an internal process for evaluating and interpreting experience is evident in many theoretical orientations (See Shorr, 1974; Mook, 1975).

A review of the literature suggests that change involves an intricate relationship of the different sensory modalities, each having a different function. A number of studies indicate that an interrelationship of the different modalities is necessary for any change to occur (Strosahl & Ascough, 1981; Staats & Lohr, 1979). This is consistent with Richardson's finding that the ability to alternate between the visual and verbal modalities increases problem solving ability. Each modality has a unique function that gives us different information about an experience.

The exclusive use of one will limit one's understanding. The visual modality is more open to insight and creativity while the verbal modality has a logical defensive function (Shorr, 1974) and may act as a barrier to change. According to Sheikh, et al. (1975), the image may contain affective information that is not available in verbal thought and may be more closely associated with unconscious processes. The intensity of the affect associated with images and its relationship to unconscious processes adds knowledge to our interpretation of an experience. Gendlin (1971) considers the "intensive affective feeling process" as a necessary condition for personality change to occur. A greater understanding and use of imagery may increase the effectiveness of therapeutic techniques for producing change since it appears to circumvent any filtering by verbal thought processes (Sheikh & Panatiotou, 1975). This would enable the individual to access unconscious resources that can not be understood solely on the conscious, verbal level. Increasing an individual's ability to access images associated with the different modalities should increase their understanding of past experiences and enable them to re-interpret them in a new, more productive way. Once re-interpretation occurs, a reduction in anxiety and an increase in positive self-regard should result (Morrison & Cometa, 1980; Shorr, 1974; Lazarus, 1972). The intensity of the affective response generated through imagery and its closer relationship to unconscious processes may provide the impetus for a change in self-image to occur.

C. Self-Image Change

The importance of an individual's self-image as a factor in personality change is evident in many theoretical approaches from Social Behaviorism (Staats & Lohr, 1979) to Existentialism (Keen, 1975). The self is a reference point or mediator for behavior and the person evaluates and defines himself/herself in relationship to his/her world and others. A discrepancy can occur between what a person perceives himself to be and who he/she actually is (Shorr, 1974; Cartwright, 1980). The person can construe an inaccurate image of himself/herself by perceiving experiences to fit in with his/her self-image. The person's capacity to perceive "reality" in a way is incongruent with his/her own lived-experience is not exclusive to existential theories of personality. As Morrison, et al., (1980, p. 36) state:

"Piaget treats images as mental reconstructions of events which, being products of assimilation into existent structures, are subject to distortion and inaccuracy."

This idea is also implied in Lazarus' (1972) discussion of restructuring cognitive systems to fit into reality. Although this process of misconstruing experience is not a conscious, deliberate decision, habitual patterns develop which limit choices in relationships. For any personality change to occur, it must occur in relationship to the person's world and others (Gendlin, 1971) and it must occur in relation to self.

Similarly, therapists who work with children assume that

the self is a reference point for behavior and that experience can be misperceived to fit with an inaccurate image of self. There is a fundamental sense of self that is growth oriented and a drive toward self-realization (Axeline, 1969; Oaklander, 1978; Winnicott, 1971). Oaklander (1978) describes poor self-concept as a lost sense of self. Therapy can be a process of uncovering this lost sense of self, thereby enhancing the self-concept.

Although the use of imagery has been effective for enhancing the self-concept during adolescence (Reardon & Tosi, 1977; Harris, et al., 1980; Sarkisian, 1974), there have been few studies showing similar effects with children during the latency period who are referred for adjustment problems. In one study (Barret, 1975) individual play therapy had no significant effect on self-concept with socially and psychologically maladjusted children. The author observed that changes made were not reflected in the self-concept measure used. In another study (Gaulden, 1975), group sessions with children had no significant effect on self-concept or disruptive behavior. However, a decrease in disruptive behavior was shown in one of the treatment groups that focused on relationship counselling. Although few systematic studies have been done with children in group therapy, Karson (1975) and Schiffer (1977) suggest that group therapy provides a corrective experience for changing behavior.

D. Research in Neuro Linguistic Programming

In a review of the research in Neuro Linguistic Programming, what is available tends to be descriptive in nature (Harmon & O'Neill, 1981) or developed to assess the validity of primary representational systems (Lange, 1981). A series of research projects in process (See Appendix A) also focus mainly on representational systems. There appears to be no published research relating directly to the use of Neuro Linguistic Programming techniques for changing self-image in children.

E. Conclusions

In reviewing the literature, some support was found for the use of self-image learning in children. The basic assumptions of Lankton's technique were also supported. These include the assumptions that:

1. Self-image is a reference point for behavior.
2. Experiences can be misconstrued to fit in with the self-image.
3. Imagery can be an important factor in personality change.
4. Change involves an intricate relationship of the different sensory modalities, each having a unique function.
5. The ability to manipulate images can be an important means of personality or behavior change.

The sparsity of available research using imagery to change self-image in the latency age group indicates the need for further research. The purpose of this study is to develop a program of

behavior or personality change, based on the use of imagery,
for the use with latency age children.

CHAPTER THREE

METHODOLOGY AND DESIGN

A. Development of the program

The initial purpose was to adapt a re-structuring self-image technique (Lankton, 1978) for the use with children between the ages of 9 years and 12 years. This is essentially a technique for altering the negative ways we think of our self and replacing them with positive associations. Initially, disrupting prior associations and replacing them with new associations is a conscious process; with repetition it becomes unconscious or automatic.

Lankton's technique consisted of a sixty minute audiotape containing instructions for:

1. Building a Central Self-Image (CSI) through visual imagery.
2. Adding positive characteristics to the Central Self-Image.
3. Strengthening idiomotor connections between the Central Self-Image and the positive feelings.
4. Building up habit patterns.
5. Building scenerios associated to the Central Self-Image, from pleasant to increasingly more stressful.
6. Shaping perceptions with emanated images.

The technique focuses on the use of imagination, requiring a great deal of attention and concentration. In order to adapt the technique for children in the latency period, several modifications were made:

1. Instructions were shortened.
2. Art work and dramatic play were used to appeal to children in order to increase their understanding of the different concepts.
3. In the second and third phases, group members were separated into pairs. The leader worked with each pair in order to enhance their experience.

B. Hypothesis

In order to evaluate a change in positive feelings toward the self, a self-report inventory purporting to measure the child's perception of self was administered. The Piers-Harris Children's Self-Concept Scale (1969) was selected as a measure of phenomenal self-perception.

In order to ensure that the Central Self-Image has an interpersonal component, a second person, one who supports the child's positive feelings, is added to the picture. The child is then guided through various scenarios, from pleasant to increasingly more stressful. During these scenes, the Central Self-Image serves as a cue for the child to imagine self relating in more constructive ways. If effective, the child should be able to think of more productive ways to relate to the stressful situation. The present researcher believes that this intervention may result in changes in the child's personality, including interpersonal relationships. The

Children's Personality Questionnaire (Porter & Cattell, 1972) was chosen to evaluate the effects of the program on the child's personality. This scale covers major personality dimensions and can be administered over a short period of time.

McIntyre and Drummond (1977), using the two instruments cited above, conducted a study to assess the contribution of various personality dimensions to the self-concept. They found 52% of the variance accounted for by the Children's Personality Questionnaire Factors C,J,O,D, and A, in the order of their loadings (p. 296). Children with low self-concepts, measured by the Piers-Harris Children's Self- Concept Scale, were described as follows:

"Children with low self-concepts tend to get emotional when frustrated, are easily perturbed, tend to give up easily, and are changeable in attitudes and interests. They tend to be evasive of responsibility, obstructive, and wrapped up in themselves." (p.296)

The present researcher believes that children in the present study may show similar changes on the Children's Personality Questionnaire, namely, a greater emotional stability (Factor C) and a greater willingness to act with the group (Factor J). They may also become more self-assured (Factor O-), more outgoing (Factor A), and less excitable (Factor D).

In summary, the six hypotheses of the study are as follows:

- H₁ There will be a significant increase in self-concept as measured by the Piers-Harris Children's Self-Concept Scale, following the program.

- H₂ There will be a significant increase in Factor C of the Children's Personality Questionnaire following the program.
- H₃ There will be a significant increase in Factor A of the Children's Personality Questionnaire following the program.
- H₄ There will be a significant decrease in Factor J of the Children's Personality Questionnaire following the program.
- H₅ There will be a significant decrease in Factor O of the Children's Personality Questionnaire following the program.
- H₆ There will be a significant decrease in Factor D of the Children's Personality Questionnaire following the program.

C. Experimental Procedure

1. Sample

The sample consisted of six female subjects, ages 9 to 12 years, referred to a Children's Assessment and Counselling Center for group therapy. The presenting problems ranged from distractible, impulsive to self-critical, withdrawn, shy behaviors. Despite the apparent differences in the above behaviors, they are indicative of feelings of inadequacy (Oaklander, 1978).

In the initial session it was found that impulsive, distractible behavior made it difficult for the subjects to concentrate on purely imaginative material and attempts were made to modify the program as the sessions progressed.

2. Design

Since only a small number of subjects were referred to the Center for group therapy, it was not possible to form a representative control group. Despite this, an exploratory study was undertaken using a one group pretest-posttest design. In such a study, uncontrolled factors affecting internal validity are history, maturation, testing, instrumentation, and interaction. Of these variables, the major effect will likely be events occurring outside the counselling sessions. This researcher expects that this will have a deleterious effect upon the results, as the subjects' environments are characterized by instability.

The major uncontrolled variables affecting external validity are generalization and the effect of pretesting. The lack of a control group limits generalization to similar populations. Pretesting sensitizes subjects to the items which can result in better adjustment on the second test (Campbell & Stanley, 1969). Since this is an exploratory study, the intention of the researcher is to see the effect of the program on the selected population. Any attempt to generalize beyond the group would require further study.

3. Test Instruments

A. Piers-Harris Children's Self-Concept Scale

Self-concept was measured by the Piers-Harris Children's Self-

Concept Scale (Piers-Harris, 1969), a forced-choice self-report inventory consisting of 80 items reflecting the child's feelings about himself/herself. The test requires a Grade three reading knowledge but can be administered to children below this age on an individual basis. The authors report split-half reliabilities of .91 and .87 (on Grade 6 and Grade 10 samples) and test-retest reliabilities (at two month and four month intervals) of .77. Construct validities of .68 with Lipsett's Children's Self-Concept Scale and -.64 and -.48 with SRA Junior Inventory Big Problems and Health Problems, respectively, are reported. Although the authors stress the importance of subjective reports for assessing phenomenal self-perception, correlations with teacher and peer ratings of .40 were found. Bentler (Buro, 1976) reports correlations of -.54 and -.69 with anxiety.

B. Children's Personality Questionnaire

The Children's Personality Questionnaire (Porter & Cattell, 1972) is a standardized personality inventory developed for children ages 8 to 12 years. The test measures 14 dimensions of personality, each functionally independent and described in bi-polar terms. (See Appendix C). There are four parallel forms but inter-form consistency is low (Gough, 1978). Split-half reliabilities and test-retest reliabilities (of a two day interval) for each factor are reported, these range from .25 to .68 and .47 to .72 respectively. Conceptual validities reported are based on the development of the test through factor analysis. The authors cite examples of empirical validities ranging from academic achievement to personality profiles for

various populations.

4. Procedure

The Children's Personality Questionnaire (Form B) followed by the Piers-Harris Children's Self-Concept Scale were administered to the six subjects during the first and last group sessions. Since a number of the children had poor reading skills, the test items were read to the entire group.

CHAPTER FOUR

RESULTS AND DISCUSSION

Table 1 shows the means, standard deviations, and correlated 't' tests (Ferguson, 1976) on the percentile score of the Piers-Harris Children's Self-Concept Scale and the Children's Personality Questionnaire factor scores.

TABLE 1

Planned comparisons of Pretest and Posttest Piers-
Harris Children's Self-Concept Scale and Children's
Personality Questionnaire Test Scores

Scales	Mean		Standard Deviation		't'Value
	pretest	posttest	pretest	posttest	
Self-Concept	37.33	40.00	12.21	8.92	.71
CPQ Factor A	3.17	2.50	2.79	1.05	.72
CPQ Factor C	3.83	5.33	.75	1.21	3.00*
CPQ Factor D	7.17	7.67	2.48	1.97	.42
CPQ Factor J	6.83	5.50	2.48	1.97	.95
CPQ Factor O	6.00	6.50	1.41	1.52	.80

* $p \leq .025$

Hypothesis 1,3,4,5,and 6 were not confirmed. The only significant

difference in the expected direction occurred on the Children's Personality Questionnaire Factor C, indicating that the children demonstrated a significant increase in emotional stability. There were no significant increases in self-concept or willingness to act with the group, although change occurred in the expected direction on the two dimensions. Levels of outgoing behavior, self-assuredness, and excitability also showed no significant change.

TABLE 2

Comparison of Pretest and Posttest Means and Standard Deviations of the Piers-Harris and Children's Personality Questionnaires Scores with Manual Norms

Scales	Standard Deviations			Means		
	Pretest	Posttest	Manual	Pretest	Posttest	Manual
Self-Concept	12.91	8.92	13.00	37.33	40.00	50.00
CPQ Factor A	2.97	1.05	2.90	3.17	2.50	5.00
CPQ Factor C	.75	1.21	3.40	3.83	5.33	5.00
CPQ Factor D	2.48	1.97	3.80	7.17	7.67	5.00
CPQ Factor J	2.48	1.97	2.80	6.83	5.50	5.00
CPQ Factor O	1.41	1.52	3.60	6.00	6.50	5.00

Inspection of Table 2 shows that the variability of test scores in this study is very similar to that reported in the manual. Consequently the failure to achieve statistical significance is

unlikely to be due to high variability within the scores and more likely to be due to failure in the treatment.

Inspection of Table 2 shows that pretest and posttest means for three scales tended to be lower than those reported in the manual, which may have been due to attentional problems. This interpretation is supported by the fact that the mean score for Factor D(Excitability) was higher than the mean score reported in the manual.

The present results may have also been susceptible to experimenter wise error since the dependent variables (Scale Scores) were not independent. A larger sample size and the use of MANOVA might alleviate this problem. However, the scope of the present research project was too limited to include the number of subjects required for MANOVA techniques.

The only significant change in the Children's Personality Questionnaire scores occurred in emotional stability. Despite distractibility and poor concentration during certain phases of the technique, the children were better able to deal with emotional situations following the group sessions. As indicated earlier, children who scored low on this factor were described as "emotional when frustrated, easily perturbed, and evasive of responsibility" (Porter & Cattell, 1972,p.25). These characteristics are similar to the presenting behaviors that necessitated referral to a counselling center. This personality characteristic also accounted for 24% of the variance when predicting self-concept, as indicated by McIntire and

Drummond's (1977) study. Because of the lack of a control group, it is difficult to assess whether the change occurred as a result of the Structuring Self-Image technique or other factors in the group process. This remains an empirical question.

Since there was a significant increase in emotional stability, one would expect a similar change in self-concept. Although the self-concept measure showed a change in the expected direction, the change was not significant. The lack of significance may have been a function of the self-concept inventory which requires a ten point change to reach significance (Piers, 1979,p.5). Only one subject showed a change of this magnitude. Self-concept is also a multi-dimensional concept that is affected by many factors outside the group situation; for example, family and peer relationships. These factors were uncontrolled in this study. In the studies reviewed, with similar populations, change in acting out behavior occurred before any change in a self-concept inventory (Gaulden, 1975; Barrett, 1975). Whereas acting out behavior is an observable phenomena, self-concept depends upon the subject's self reports. In this group, the children were more attentive on the posttest, which may indicate that the posttest is a more valid measure of their personality.

This researcher expected that an increase in emotional stability would be accompanied by a decrease in impulsivity. However, the children in the present study showed a slight non-significant increase in excitability on the Children's Personality Questionnaire, indicating an increase in impulsivity and distractibility. This increase in

excitability was inconsistent with their actual behavior. Toward the end of the sessions, the more aggressive members became less impulsive and the more reticent members became more impulsive; these changes were observed rather than reflected in the test instruments. A similar effect was found by Barrett (1975) and Gaulden(1975). Since distractibility was a factor in this population, a measure of overt behavior, such as impulsive responses, may have shown a decrease in number following the group sessions. Future research should include measures of overt behavior and interviews with parents and teachers to further assess the effect of the program on impulsive, distractible behavior.

The children in the group also showed an increase in their willingness to act with the group but a decrease in outgoing behavior and a decrease in self-assuredness. Although the changes are non-significant, the present researcher's observations suggest that certain phases of the Structuring Self-Image technique require further adaptation for work with distractible children: Teaching relaxation skills, building stronger positive associations to the Central Self-Image, and a greater emphasis of bringing the Central Self-Image through stressful experience may have resulted in more significant changes with this population.

This researcher's observations during the sessions indicate that the children were well able to use the imagery techniques but they were unable to concentrate on the technique long enough for habitual patterns to develop. According to Lankton, the development of strong positive patterns is essential for disrupting previous, negative

associations.

Three factors appeared to affect the children's attention span. Peer influence in combination with the impulsive, distractible nature of some subjects tended to disrupt the flow of imagery required by the technique. Although one of the assets of group therapy is that the more reticent members are able to try out new behaviors because of the influence of the more outgoing members (Ginott, 1961; Oaklander, 1978), this is detrimental when inner processing is required. The third factor affecting the children's attention span was the external focus of awareness of this age group, and likely exaggerated in this population. As indicated above, attention to and concentration on inner processes were necessary requirements in order to ensure that strong positive associations occurred.

The most valuable experience for the children was adding positive characteristics to the Central Self-Image. It was initially difficult for some members to access positive experiences and kinaesthetic anchoring was used. Since children at this age are more concrete in their thinking, the physical cue served as a concrete reminder. This also necessitated individual work during this phase of the group process. Once one positive experience was recalled, the children were well able to recall others. Further adaptation of the technique should emphasize this phase and build stronger habit patterns. Stronger positive associations to the Central Self-Image may make the next phase, recalling stressful scenes, less anxiety-provoking.

The most difficult experience for this group was recalling stressful scenes. Although the purpose was not to increase their distress, the use of imagery appeared to open up painful areas. As indicated earlier, imagery bypasses the defensive function of the verbal modality (Shorr, 1974) and brings in information that is more closely associated with unconscious processes (Sheikh & Panagiotou, 1975). Although the child at this age is not motivated for deep insight (Schiffer, 1977), use of imagery may bring this closer to conscious awareness. The increase in impulsivity and distractibility by some members during this phase suggests that their referral behavior was a means of covering up stressful experiences. In order to further develop this phase of the treatment, greater attention to the individual's process as they go through the stressful scenes seems required. This would decrease the effect of distractible members on children who were able to work and give more time for building positive associations for the child to draw on while recalling stressful experiences.

As indicated by their ideomotor responses, most subjects were able to use the Central Self-Image at the first sign of stress. The children's need for visual and kinaesthetic cues suggest that the Central Self-Image, as a visual image, may have been insufficient to reduce stress in this group. As indicated earlier, the use of kinaesthetic anchoring is necessary for assessing positive experiences. Once one positive experience is accessed, it is easier for the children to recall other positive experiences. Building stronger associations between the kinaesthetic anchor and the visual picture may have been more fruitful with this group of children. In order to build up stronger

habit patterns, a greater stress on the individual's process would be required.

Supplementary clinical observations suggest that the Structuring Self-Image technique has potential for use with children at this age. The major factor affecting the group was their inability to concentrate long enough for habit patterns to develop. Distractibility and poor attentional skills was a major characteristic of this population. However, the children were able to attend to the phase of the technique that required building positive associations to the Central Self-Image. The problems this researcher encountered when running through stressful scenes suggest the need to build up stronger positive habit patterns with such groups before working on anxiety-provoking situations. Individual work, with an emphasis on building stronger positive associations to the Central Self-Image is needed. Working with a co-therapist or working with a smaller group would provide the individual attention required by this type of population.

Further development of the Structuring Self-Image technique has the potential for significant results with children in a clinical population. The value of the technique rests upon its emphasis on positive experiences and the use of kinaesthetic anchoring to enable the child to access these experiences. This phase of the technique was extremely important for children in this population since the behaviors they manifested were not conducive to positive reinforcement. A number of children were referred because of impulsive, distractible behaviors that affected their ability to relate positively

to family members and peers. Further research would necessitate assessing the effect of developing stronger associations between the kinaesthetic anchor and the visual picture, which would require more time and more practice with the children. In keeping with Lankton's view, once an automatic association occurred, stressful scenes could be dealt with in a positive way. The increase in emotional stability and the decrease in observable, distractible behavior following the group sessions may indicate an openness to new, more positive experiences.

REFERENCES

- Anderson J.J. I-agery and Behavior Change. Dissertations Abstracts International, 1981,41(11),4250-B.
- Axeline V.M. Play Therapy. New York: Ballantine books, 1969.
- Bandler R. and Grinder J. Frogs into Princes: Neuro Linguistic Programming. Moab, Utah: Real People Press, 1979.
- Bandler R. and Grinder J. The Structure of Magic I: A Book about Language and Therapy. Palo Alto, California: Science and Behavior Books, Inc., 1975.
- Barret D. The effects of Play Therapy on the Social and Psychological Adjustment of Five to Nine Year Old Children. Dissertations Abstracts International, 1975,36A, 5032.
- Buro's O.K. (Ed.) The Eighth Mental Measurements Yearbook. Vol. I New Jersey: The Gryphon Press, 1978.
- Buro's O.K. (Ed.) The Seventh Mental Measurements Yearbook. Vol. I New Jersey: The Gryphon Press. 1972.
- Campbell D.T. and Stanley J.C. Experimental and Quasi-Experimental Designs for Research. Chicago: Rand McNally and Co.; 1969.
- Erickson M.H. and Rossi E.L. Hypnotherapy: An Exploratory Casebook. New York: Irvington Publishers, Inc., 1979.
- Ferguson G.A. Statistical Analysis in Psychology and Education. (4th, Ed.). New York: McGraw-Hill Book Co. 1976.
- Gaulden G.L. Development Play Group counselling with Early Primary Grade Students Exhibiting Behavioral Problems. Dissertations Abstracts International, 1975,36A,2628.
- Gendlin J.E. A Theory of Personality Change. In Mahrer A. (Ed.). Creative Developments in Psychotherapy. Cleveland: Case-Western Reserve, 1971.
- Ginott H.G. Group Psychotherapy with Children: The Theory and Practice of Play Therapy. New York: McGraw-Hill Book Co., 1961.
- Grinder J. and Bandler R. The Structure of Magis II. Palo Alto, California: Science and Behavior, Inc. 1976.
- Harmon R.L. and O'Neill C. Neuro Linguistic Programming for Counselors. The Personnel and Guidance Journal, 1981,449-453.
- Harris R., Nolte D. and Nolte C. Effects of Intervention on Teenagers' Physical and Psychological Identity. Psychological Reports, 1980,46,505-506.
- Karson S. Group Psychotherapy with Latency Age Boys. International Journal of Group Psychotherapy. 1965,15,81-89.

- Keen E. A Primer in Phenomenological Psychology. Holt, Rinehart, and Winston, Inc., 1975.
- Kirsch J. and Kroll J. Meaningfulness versus Effectiveness: Paradoxical Implications in the Evaluation of Psychotherapy. Psychotherapy: Theory, Research, and Practice, 1980, 17, 401-411.
- Lankton S.R. Practical Magic: A translation of Basic Neuro Linguistic Programming into Clinical Psychotherapy. Claifornia: Meta Publications, 1980.
- Lankton S.R. Structuring Self-Image. Taped Series.
- Lazarus R.S. and Averill J.R. Emotion and Cognition: With Special Reference to Anxiety. In Spielberger C.D. (Ed.) Anxiety: Current Trends in Theory and Research. Vol. 2 New York: Academic Press, 1972.
- Leuba C. and Dunlap R. Conditioning Imagery. Journal of Experimental Psychology. 1951, 41, 352-355.
- Marks D. Imagery and Consciousness: A Theoretical Review from an Individual Difference Perspective. Journal of Mental Imagery, 1972, 2, 275-290.
- McIntire W.G. and Drummond R.J. Multiple Predictors of Self-Concept in Children. Psychology in the Schools, 1977, 14, 295-298.
- Mook B. Words and Images in Psychotherapy. Psychotherapy: Theory, Research, and Practice, 1975, 12(2), 202-206.
- Morrison J.K. and Cometa M.S. A Cognitive, Reconstructive Approach to the Psychotherapeutic Use of Imagery. Journal of Mental Imagery, 1980, 4(1), 35-42.
- Oaklander V. Windows to our Children: A Gestalt Approach to Children and Adolescents. Utah: Real People Press, 1978.
- Piers E.V. Manual for the Piers-Harris Children's Self-Concept Scale. Nashville, Tennessee: Counselor Recordings and Tests, 1969.
- Piers E. and Harris D. The Piers-Harris Children's Self-Concept Scale. Nashville: Counselor Recordings and Tests, 1969.
- Porter R.B. and Cattell R.B. Children's Personality Questionnaire. Champaign. Illinois: Institute for Personality and Ability Testing, 1972.
- Porter R.B. and Cattell R.B. Handbook for the Children's Personality Questionnaire. Champaign. Illinois: Institute for Personality and Ability Testing, 1972.

- Reardon J.P. and Tosi D.J. The Effects of Rational Stage Directed Imagery on Self-Concept and Reduction of Psychological Stress in Adolescent Delinquent Females. Journal of Clinical Psychology, 1977,33,1084-1092.
- Richardson A. Mental Imagery. New York: Springer Publishing Co., Inc., 1969.
- Richardson A. Mental Practice: A Review and Discussion. Part I. The Research Quarterly, 1966,38(1), 95-107.
- Richardson A. Mental Practice: A Review and Discussion. Part 2. The Research Quarterly, 1966, 38(2), 263-273.
- Sakirian R.A. The Use of Ideal Models in Covert Rehearsal to Self-Concept. Dissertations Abstracts International, 1975, 35B, 3596.
- Schiffer M. Activity - Interview Group Psychotherapy: Theory, Principles, and Practice. International Journal of Group Psychotherapy, 1977,27,377-388.
- Sheehan P.W. The Function and Nature of Imagery. New York: Academic Press, 1972.
- Sheikh, K.D. and Panagiotou N.C. Use of Mental Imagery in Psychotherapy: A Critical Review. Perceptual and Motor Skills, 1975, 41,555-585.
- Shorr J.E. Psycho-Imagination Therapy. New York: International Medical Book Corporation, 1974.
- Singer J.L. Imagery and Daydream Methods in Psychotherapy and Behavior Modification. New York: Academic Press, 1974.
- Sommer R. The Mind's Eye: Imagery in Everyday Life. New York: Delacorte Press, 1978.
- Staats S.W. and Lohl J.M. Images, Language, Emotions, and Personality: Social Behaviorism's Theory. Journal of Mental Imagery, 1979,3,85-106.
- Strosahl K.D. and Ascough J.C. Clinical Uses of Mental Imagery: Experimental Foundations, Theoretical Misconceptions, and Research Issues. Psychological Bulletin, 1981,89(3),422-488.
- Wilkins W. Imagery - Based Decisions. Psychotherapy: Theory, Research, and Practice.1976,13(3), 253-254.
- Winnicott D.W. Playing and Reality. Ontario, Canada: Penguin Books, 1971.
- Wylie R.C. The Self-Concept: A Review of Methodological Considerations and Measuring Instruments, Vol.,1 Lincoln:University of Nebraska, 1974.

APPENDIX A

NEURO LINGUISTIC PROGRAMMING RESEARCH
IN PROCESS

RECEIVED FROM

NOT LTD.

517 MISSION STREET

SANTA CRUZ CA 95060

408-423-9820

NAMES OF PEOPLE DOING RESEARCH ON

NLP RELATED CONCEPTS

NAME AND ADDRESS

TYPE OF RESEARCH

- | | |
|--|--|
| 1. Connierae Andreas
2480 Juniper
Boulder, Colorado 80302 | Research on lateral eye movements
and representational systems.
(Dissertation in progress.) |
| 2. Michael Cortese
35698 Smith
Romulus, Michigan 48174 | EEG research on hemispheric dominance
and representational systems (in progress). |
| 3. Bert Lucas
2136 Prairie Field Place
Manhattan, Kansas 66502 | Research in biofeedback on the
response of different representational
types of feedback in different sensory
systems. (Dissertation - in progress.) |
| 4. Louise Paxton
320 Quinby Rd.,
Rochester, NY 14623 | Representational systems and
counseling. |

12. Laura Birkholtz
282 Aspen Way
Santa Barbara, CA 93111
Representational systems and
personality.
13. Russ Beale
Center for Human
communication
120 Oak Meadow Drive
Los Gatos, CA 95030
Statistical research on accessing
cues.
14. Alan Salmi
1218 Washtenaw Ct.
Ann Arbor, MI 48104
Eye Movements.
15. George W. Schmedlen
Kent State University
Counseling & Personnel Ser
Education
Kent, Ohio
Completed Dissertation titled
"The Impact of Sensory Modality
Matching on the Establishment of
Rapport in Psychotherapy" completed
in 1981. Should show up in the
dissertation abstracts soon.
16. Thomas David Macroy
Utah State University
Salt Lake City, UT
Linguistic Surface Structure in
Family Interaction. Completed
dissertation 1978. P926-B in
Dissertation Abstract.
17. Edward Q. Brengle
Wayne State University
Detroit, MI
Preference for sensory modality of
mental imagery and its relationship
to stress reduction using a system-
atic desensitization technique.
Completed dissertation 1979.

18. Marc E. Rebstock
University of Missouri
Kansas City, MO
The Effects of Training in Matching Techniques on the Development of Rapport between Client and Counselor during initial counseling interviews. A copy of the abstract is in Dissertation Abstracts" Vol. 41 No. 03 September 1980
19. Thomason, Arbuckle & Cody
"Test of the Eye Movement Hypothesis of Neurolinguistic Programming" in Perceptual & Motor Skills, 1980, Vol. 41, P 230.
20. E. Thomas Dowd & John Pety
31 Teachers College
Educational Psychology & Social Foundations
Lincoln, NE 68588-0440
The Effect of Counselor Predicate Matching on Perceived Social Influence and Client Satisfaction.
21. Dr. Michael Yapko
The Effect of Matching Primary Representational System Predicates on Hypnotic Relaxation in "The American Journal of Clinical Hypnosis, 1981,23,179-175.
22. Stephen C. Bacon
Department of Psychology
University of Montana
Missoula Montana
"Effects of Visual-Kinesthetic Disassociation on Anxiety in Six Phobic Clients". MA THESIS 1981.

23. Stephen Brody "Neurolinguistic Programming: Trans-
Johnston College personal Dimensions". MA THESIS 1981.
University of Redlands
Redlands, CA
24. Lois Monteith "NLP Techniques with Reading
128 Wetherill Road Difficulty in Children", Dissertation
Cheltenham, PA 19012 in progress, 1981.
25. E. Thomas Dowd Counselor Predicate Matching:
Department of Educational An In Vivo Demonstration and
Psychology and Social Effectiveness, 1981.
Foundation,
University of Nebraska
Ann J. Hingst
Department of Human Services
Studies, University of
Florida

APPENDIX B

THE PIERS-HARRIS CHILDREN'S
SELF-CONCEPT SCALE

Here are a set of statements. Some of them are true of you and so you will circle the yes. Some are not true of you and so you will circle the no. Answer *every* question even if some are hard to decide, but do *not* circle both yes and no. Remember, circle the yes if the statement is generally like you, or circle the no if the statement is generally not like you. There are no right or wrong answers. Only you can tell us how you feel about yourself, so we hope you will mark the way you really feel inside.

1. My classmates make fun of me.....yes no
2. I am a happy person.....yes no
3. It is hard for me to make friends.....yes no
4. I am often sad.....yes no
5. I am smart.....yes no
6. I am shy.....yes no
7. I get nervous when the teacher calls on me.....yes no
8. My looks bother me.....yes no
9. When I grow up, I will be an important person.....yes no
10. I get worried when we have tests in school.....yes no
11. I am unpopular.....yes no
12. I am well behaved in school.....yes no
13. It is usually my fault when something goes wrong.....yes no
14. I cause trouble to my family.....yes no
15. I am strong.....yes no
16. I have good ideas.....yes no
17. I am an important member of my family.....yes no
18. I usually want my own way.....yes no
19. I am good at making things with my hands.....yes no
20. I give up easily.....yes no

21. I am good in my school work yes no
22. I do many bad things yes no
23. I can draw well yes no
24. I am good in music yes no
25. I behave badly at home yes no
26. I am slow in finishing my school work. yes no
27. I am an important member of my class yes no
28. I am nervous. yes no
29. I have pretty eyes yes no
30. I can give a good report in front of the class yes no
31. In school I am a dreamer. yes no
32. I pick on my brother(s) and sister(s) yes no
33. My friends like my ideas. yes no
34. I often get into trouble. yes no
35. I am obedient at home. yes no
36. I am lucky yes no
37. I worry a lot yes no
38. My parents expect too much of me yes no
39. I like being the way I am yes no
40. I feel left out of things yes no

41. I have nice hair.....yes no
42. I often volunteer in schoolyes no
43. I wish I were differentyes no
44. I sleep well at night.....yes no
45. I hate school.....yes no
46. I am among the last to be chosen for games.....yes no
47. I am sick a lotyes no
48. I am often mean to other people.....yes no
49. My classmates in school think I have good ideasyes no
50. I am unhappyyes no
51. I have many friendsyes no
52. I am cheerfulyes no
53. I am dumb about most thingsyes no
54. I am good lookingyes no
55. I have lots of pep.....yes no
56. I get into a lot of fightsyes no
57. I am popular with boys.....yes no
58. People pick on meyes no
59. My family is disappointed in meyes no
60. I have a pleasant faceyes no

61. When I try to make something, everything seems to go wrong. yes no
62. I am picked on at home yes no
63. I am a leader in games and sports yes no
64. I am clumsy..... yes no
65. In games and sports, I watch instead of play yes no
66. I forget what I learn..... yes no
67. I am easy to get along with..... yes no
68. I lose my temper easily yes no
69. I am popular with girls yes no
70. I am a good reader yes no
71. I would rather work alone than with a group yes no
72. I like my brother (sister) yes no
73. I have a good figure yes no
74. I am often afraid..... yes no
75. I am always dropping or breaking things yes no
76. I can be trusted yes no
77. I am different from other people..... yes no
78. I think bad thoughts yes no
79. I cry easily..... yes no
80. I am a good person. : yes no
-

APPENDIX C

CHILDREN'S PERSONALITY QUESTIONNAIRE



CPQ, Form B

(1963 Edition)

Part B

What You Do and What You Think

Print Your Name: First _____ Last _____

Your Age _____ Grade in School _____ Boy or Girl _____

Read each statement and mark an ☒ on the side that fits you better. Some questions will not have the words just the way you want them but mark every one the best you can. You may ask for help if you don't know a word. ~~Just raise your hand and the teacher will come to your desk.~~ Do not work long on one question. Mark it and go right on to the next one. **MARK EVERY ONE.** Most of the questions have two boxes to choose from but other questions have three boxes. Always look at **ALL** the boxes and pick just one of them for your answer.

1. Would you like to play with mechanical toys ☐ or ☐ with friends
2. Does almost everyone like you ☐ or ☐ only some people
3. Are most of your friends' families nicer than yours ☐ or ☐ not as nice
4. Can you finish your work faster than others ☐ or ☐ do you take longer
5. Would you go and speak to a little boy or girl who is crying ☐ or ☐ send someone to his mother for help
6. Are you usually sure of yourself ☐ or ☐ do you sometimes feel uncertain
7. Would you rather be a minister in a church ☐ or ☐ a doctor in a hospital
8. Would you like to start a new club ☐ or ☐ would you rather someone else started it
9. When people tell about things you have seen, do you think you know better ☐ or ☐ do you just listen and agree with them
10. When you have started a big job, do you soon forget about it ☐ or ☐ find that you cannot forget it

GO RIGHT ON TO THE NEXT PAGE

DO NOT WRITE BELOW THIS LINE.

FACTOR	A	B	C	D	E	F	G	H	I	J	N	O	Q ₁	Q ₂
Part B ₁ Raw Score														
Part B ₂ Raw Score														
Form B Raw Score = (B ₁ + B ₂)														
Standard Score														
PROFILE IN STENS	10	.	.	.	.	.	.	.	.	.	.	.	.	.
	9	.	.	.	.	.	.	.	.	.	.	.	.	.
	8	.	.	.	.	.	.	.	.	.	.	.	.	.
	7	.	.	.	.	.	.	.	.	.	.	.	.	.
	6	.	.	.	.	.	.	.	.	.	.	.	.	.
	5	.	.	.	.	.	.	.	.	.	.	.	.	.
	4	.	.	.	.	.	.	.	.	.	.	.	.	.
	3	.	.	.	.	.	.	.	.	.	.	.	.	.
	2	.	.	.	.	.	.	.	.	.	.	.	.	.
	1	.	.	.	.	.	.	.	.	.	.	.	.	.
FACTOR	A	B	C	D	E	F	G	H	I	J	N	O	Q ₁	Q ₂

Copyright © by The Institute for Personality & Ability Testing, 1969, 1963. International copyright in all countries under the Berne Union. Buenos Aires, Bilateral, and Universal Copyright Conventions. All property rights reserved by The Institute for Personality & Ability Testing, 1602-04 Coronado Drive, Champaign, Illinois, U.S.A. Printed in U.S.A. Authors are R. B. Porter and R. B. Cattell.

CPQ-8th-7AA

PAGE 2

In every question, mark just one box.

11. Worried is the opposite of calm ☐ or sleepy ☐ or concerned ☐
12. When others say bad things about you, do you quietly object ☐ or ☐ are your feelings hurt
13. Do you like to cross a busy street ☐ or ☐ are you afraid to cross
14. Would you rather be president of a business ☐ or ☐ a jet pilot
15. Help is to hinder as allow is to deny ☐ or punish ☐ or forbid ☐
16. Do you have few difficulties ☐ or ☐ many
17. Would you rather listen to a teacher ☐ or ☐ talk yourself
18. When something of yours needs fixing, do you ask father to mend it ☐ or ☐ fix it yourself
19. The next number in 2, 4, 8, —, is 10 ☐ or 16 ☐ or 12 ☐
20. Do you ever chew your pencil ☐ or ☐ do you never feel like it
21. Should everyone have his own airplane ☐ or ☐ are family cars enough
22. Are you usually quiet in school ☐ or ☐ do you like to say what you think
23. Which one of these does not belong with the others: many, bad, large, few large ☐ or few ☐ or bad ☐
24. Do you talk back to mother ☐ or ☐ are you afraid
25. When you get angry do you tremble and shake ☐ or ☐ talk loud
26. Would you like to go to the store by yourself ☐ or ☐ have your parents go with you
27. I am Jane. If Jim's father is my father's son, what relation is Jim to me nephew ☐ or brother ☐ or uncle ☐
28. When people ask if you will do something, is it easy to decide ☐ or ☐ hard to decide
29. Do you wish you were so good-looking that people would turn to look ☐ or ☐ don't you like people to look
30. Have you ever sold things to people ☐ or ☐ would you not want to sell things

GO RIGHT ON TO THE NEXT PAGE.

Do not write here.

B_____ D_____ E_____ F_____

PAGE 3

In every question, mark just one box.

31. In school, do you do well what is wanted ☐ or ☐ do your friends please teacher better than you do
32. When people start talking as you listen to TV or radio, does it bother you ☐ or ☐ don't you hear them talking
33. Do you feel badly if you get to school late ☐ or ☐ is it all right if you are only a few minutes late
34. If someone says, "Let's all do this," do you say, "Good, let's do it" ☐ or ☐ do you first ask, "Why?"
35. Would you rather be a cowboy ☐ or ☐ a minister in a church
36. Do you think that grown-ups understand you well ☐ or ☐ do they hurt your feelings
37. Would you rather go on a hike ☐ or ☐ read a good book
38. When your friends fight, do you try to settle it for them ☐ or ☐ do you just leave them alone
39. Are you sad when mother is cross with you ☐ or ☐ do you soon forget about it
40. When with strangers, do you feel you can go up and speak to them ☐ or ☐ are you afraid to
41. To help mother, would you rather draw some pictures for her ☐ or ☐ clean up your room
42. Which story would you like better, one about a new machine ☐ or ☐ a famous general
43. Do you help the new children at school ☐ or ☐ let the other children help them
44. Do grown-ups talk all the time ☐ or ☐ often listen to you
45. When you cannot go out, do you complain ☐ or ☐ don't you care
46. Would you rather have a small dog ☐ or ☐ a baseball set
47. On a playground, do you do what you want to do ☐ or ☐ do what most people want
48. Do you worry about being punished ☐ or ☐ does it never worry you
49. Do you like to see beautiful scenery ☐ or ☐ watch a bulldozer
50. Do you worry about not getting good grades in school ☐ or ☐ are you sure you will do well

GO RIGHT ON TO THE LAST PAGE.

Do not write here.

G_____ H_____ I_____ J_____

PAGE 4

In every question, mark just one box.

51. Do you look arithmetic problems over to correct mistakes ☐ or ☐ finish up quickly
52. Are your troubles big ☐ or ☐ small
53. Would you rather tell your mother about things at school ☐ or ☐ about a visit to a farm
54. Do you think you are always polite ☐ or ☐ are you perhaps a little too noisy
55. Would you rather talk to people ☐ or ☐ show them a game you know
56. Do you feel lonely and sad often ☐ or ☐ hardly ever
57. On days when there is no school, do you just do whatever comes up ☐ or ☐ plan what you will do for the day
58. Do you get up early ☐ or ☐ like to sleep late
59. Would you rather go on a walk with a friend ☐ or ☐ go to a picnic with mother
60. If you do something wrong, do you worry about it a lot ☐ or ☐ soon forget it
61. At the end of the day, is it easy to sit still ☐ or ☐ do you move around a lot in your chair
62. Do you make your bed yourself ☐ or ☐ do you leave it for mother to make
63. Would you rather see a movie about cow-boys and Indians ☐ or ☐ about how people in another country live
64. When you start new things, do you do them fast ☐ or ☐ slowly
65. Do you think school has too much punishment ☐ or ☐ do you think school is fun
66. If people tease you do you get angry and shout ☐ or ☐ walk away and leave them
67. Do you finish all your jobs ☐ or ☐ do you sometimes leave some unfinished
68. Do you have a good time ☐ or ☐ do things go wrong
69. When you are playing, do you usually keep the rules ☐ or ☐ sometimes break them
70. If children play with your things without asking, do you shout at them ☐ or ☐ do you let them play

DID YOU PUT ONE MARK DOWN FOR EVERY STATEMENT? CHECK BACK AND SEE.

Do not write here.

N _____ O _____ Q₃ _____ Q₄ _____



CPO, Form B
(1963 Edition)

Part B₂

What You Do and What You Think

Print Your Name: First _____ Last _____

Your Age _____ Grade in School _____ Boy or Girl _____

Read each statement and mark an ☐ on the side that fits you better. Some questions will not have the words just the way you want them but mark every one the best you can. You may ask for help if you don't know a word. Just raise your hand and the teacher will come to your desk. Do not work long on one question. Mark it and go right on to the next one. **MARK EVERY ONE.** Most of the questions have two boxes to choose from but other questions have three boxes. Always look at **ALL** the boxes and pick just one of them for your answer.

1. If children don't play with you, do you feel badly ☐ or ☐ do you start another game
2. Do wonderful things happen every day ☐ or ☐ are most days rather dull
3. Does mother say you are too slow ☐ or ☐ do you do things quickly
4. When walking across a narrow bridge, do you like looking down at the water ☐ or ☐ does the height upset you
5. Can you remember people's names ☐ or ☐ do you forget them easily
6. Do you think you will do well when you grow up ☐ or ☐ just fair
7. Does the teacher ever praise you in class ☐ or ☐ not say anything about you
8. Can you always do things well ☐ or ☐ some days are you not much good at things
9. Do you like just one close friend ☐ or ☐ lots of them
10. Do you wish your mother would help you more ☐ or ☐ does she help you too much

GO RIGHT ON TO THE NEXT PAGE.

DO NOT WRITE BELOW THIS LINE.

FACTOR		A	B	C	D	E	F	G	H	I	J	N	O	Q ₁	Q ₂
Part B ₁ Raw Score															
Part B ₂ Raw Score															
Form B Raw Score = (B ₁ + B ₂)															
Standard Score															
PROFILE IN STENS	10	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	9	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	8	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	7	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	6	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	5	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	4	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	3	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	2	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	1	•	•	•	•	•	•	•	•	•	•	•	•	•	•
FACTOR		A	B	C	D	E	F	G	H	I	J	N	O	Q ₁	Q ₂

PAGE 6

In every question, mark just one box.

11. Shy is the opposite of ☐ bold ☐ or ☐ big ☐ or timid ☐
12. When you get good news, do you take it quietly ☐ or ☐ do you have to dance up and down
13. Do you think your ideas are right and good ☐ or ☐ are you not sure
14. Are you afraid in the dark ☐ or ☐ is there nothing to be afraid of
15. Walk is to run as slow is to ☐ ride ☐ or ☐ snail ☐ or fast ☐
16. Are you usually quiet ☐ or ☐ do you talk a lot
17. When you get angry do you want to cry and pout ☐ or ☐ to smash things on purpose
18. Would you rather learn how to play the piano ☐ or ☐ to drive a car
19. The next number in 1, 4, 7, —, is 9 ☐ or 10 ☐ or 8 ☐
20. Do people say you have a temper ☐ or ☐ are you easy to get along with
21. When mother is angry with you, do you feel all right anyway ☐ or ☐ feel like crying
22. When you have to see the doctor, is it hard to be brave ☐ or ☐ don't you care a bit
23. Which one of these does not belong with the others: some, all, often, none ☐ all ☐ or none ☐ or often ☐
24. Do you sometimes feel like disobeying older people ☐ or ☐ never feel that way
25. When you grow up would you rather be a lawyer in an office ☐ or ☐ fly a plane
26. If you have torn a book, would you return it to the library ☐ or ☐ try to repair it first
27. When Joe was as old as Sue is now, Ann was older than he. Who is youngest Sue ☐ or Ann ☐ or Joe ☐
28. When people laugh at you, do you laugh too ☐ or ☐ do you get mad at them
29. When a visitor comes to your house do you talk to him first ☐ or ☐ do you feel too shy
30. Are you happy to study in a noisy room ☐ or ☐ should your study room be quiet

GO RIGHT ON TO THE NEXT PAGE.

Do not write here.

R. _____ D. _____ E. _____ F. _____

PAGE 7

In every question, mark just one box.

31. Do you listen to the news sometimes ☐ or ☐ always go to play when it comes on
32. Do you think your classmates sometimes laugh at you ☐ or ☐ don't they ever
33. Would you rather play checkers ☐ or ☐ baseball
34. When you have a new idea, do you tell it ☐ or ☐ keep it to yourself
35. Would you rather be a bus driver ☐ or ☐ a doctor
36. Do you tell jokes well ☐ or ☐ find it hard
37. Can you easily forget your mistakes ☐ or ☐ do they worry you
38. Would you rather go out with your parents. ☐ or ☐ with your good friends
39. Do you help a lot around the house ☐ or ☐ just a little
40. After school, do you play games ☐ or ☐ do you generally not feel like it
41. Do you like to stay after school with the teacher ☐ or ☐ would you rather play
42. Are your ideas better than the other children's ☐ or ☐ generally not quite so good
43. Do you like to do new things ☐ or ☐ would you rather do those things you know best
44. Are adults sometimes difficult ☐ or ☐ are they mostly kind
45. Do you like to read about wars and battles ☐ or ☐ do they frighten you
46. Are you scared of being spanked ☐ or ☐ just a little scared
47. When your parents have visitors do you run away and play ☐ or ☐ stop to talk with them
48. Do children tease you ☐ or ☐ do they never tease you
49. Do you get upset when you quarrel with your friends ☐ or ☐ don't you mind
50. Is it hard to act as old as you are ☐ or ☐ do you feel more grown-up than your age

GO RIGHT ON TO THE LAST PAGE

Do not write here.

G_____ H_____ I_____ J_____

PAGE 8

In every question, mark just one box.

51. Would you rather make something the way teacher says is best ☐ or ☐ do it the way you think best
52. If your mother is sad, do you feel sad too ☐ or ☐ try to cheer her up
53. When the class makes noise, do you sit quietly ☐ or ☐ add to the noise
54. Are you happy to see your school friends ☐ or ☐ sometimes do you not want to see people
55. When a star twinkles at you, does it seem to smile ☐ or ☐ does it seem cold and far away
56. Would you rather be an actor ☐ or ☐ a scientist
57. In school do you work because the teacher might punish you ☐ or ☐ because you like to study
58. When you get angry, do you keep silent ☐ or ☐ do you talk back
59. Do you like to keep arguing ☐ or ☐ to stop as soon as you can
60. Do you sometimes like to just sit and feel hopeless ☐ or ☐ are you always on the go
61. Would you rather do your work ☐ or ☐ try to get someone else to do it for you
62. Do you do your homework and your chores at the same time each day ☐ or ☐ at any time
63. If you were a teacher, would you let the children be noisy ☐ or ☐ would you make them be quiet
64. Can you read well ☐ or ☐ do most children read better
65. When playing do you complain a little when you do not win ☐ or ☐ do you keep quiet
66. When your school work is wrong, do you feel it is no use ☐ or ☐ do you feel you must do better
67. Do you do things you should do ☐ or ☐ things you like to do
68. Do you think you could learn to fly an airplane ☐ or ☐ would you rather be a policeman
69. If one of your friends is unkind to you, do you forgive him ☐ or ☐ feel you must get even with him
70. Do you often fight for your rights ☐ or ☐ do you keep quiet in quarrels

DID YOU PUT ONE MARK DOWN FOR EVERY STATEMENT? CHECK BACK AND SEE.

Do not write here.

N _____ O _____ Q₁ _____ Q₂ _____

APPENDIX D

DESCRIPTION OF CPQ FACTORS

FACTOR	DESCRIPTION
A:	Reserved, detached, critical, aloof, stiff vs warmhearted, outgoing, easygoing, participating.
B:	Low intelligence vs high intelligence.
C:	Emotional instability, affected by feelings, emotionally less stable, easily upset, changeable, lower ego strength vs higher ego strength, emotionally stable, mature, faces reality, calm.
D:	Phlematic, deliberate, inactive, stodgy vs excitable, impatient, demanding, overactive, unrestrained, distractible.
E:	Submissive, obedient, mild, easily led, docile, accomodating vs dominant, assertive, aggressive, compulsive, stubborn.
F:	Sober, taciturn, serious, full of cares, uncommunicative vs enthusiastic, heedless, happy-go-lucky.
G:	Low super ego strength vs super ego strength.
H:	Shy, timid, restrained, emotionally cautious vs adventurous, thick skinned, socially bold, impulsive.
I:	Toughminded, self-reliant, realistic vs tenderminded, sensitive, dependent, over protective (more imaginative).
J:	Zestful, liking group action vs circumspect individualism, reflective, internally restrained.
N:	Naivete, forthright, unpretentious, lacking self insight vs shrewdness, astute, artful, insightful regarding self and others.
O:	Untroubled adequacy, assured, placid, secure, complacent, serene vs guilt-proneness, apprehensive, self-reproaching, insecure, worrying, troubled.

Q₃: Uncontrolled, lax, follows own urges, careless of social rules vs controlled, exacting will power, socially precise, compulsive, following self-image.

Q₄: Low self-sentiment, relaxed, tranquil, torpid, unfrustrated, composed vs high strength of self-sentiment, tense, frustrated, driven, overwrought, fretful.

APPENDIX E

GORDON'S TEST OF IMAGERY CONTROL

GORDON'S TEST OF IMAGERY CONTROL

1. Can you see a car standing in front of a garden gate?
2. Try and see it is a different color.
3. Can you now see the car lying upside down?
4. Now put the same car back on its four wheels.
5. Now can you see the car running along the road?
6. Can you see it climb up a very steep hill?
7. Can you see it climb across the top?
8. Can you see it get out of control and crash through a house?
9. Can you see the same car running along the road with a handsome couple inside?
10. Now can you see the car cross a bridge and fall over the side into the stream below?
11. Can you now see the car all old and dismantled in a car cemetery?

(Richardson, 1969,pg.50)

APPENDIX F

POSITIVE RESPONSES TO GORDON'S TEST OF
IMAGERY CONTROL

POSITIVE RESPONSES TO GORDON'S TEST OF IMAGERY CONTROL

ITEMS	SUBJECTS					
	1	2	3	4	5	6
1	X	X	X	X	X	X
2	X	X	X	X	X	X
3	X	X	X	X	X	
4	X	X	X	X	X	
5	X	X	X	X	X	X
6	X	X	X	X	X	X
7	X	X	X	X	X	X
8		X	X			X
9	X	X	X	X	X	X
10	X	X	X	X	X	X
11		X	X			X

APPENDIX G

DESCRIPTION OF SESSIONS

APPENDIX G

DESCRIPTION OF SESSIONS

SESSION 1

CONTENT: The intention of this session was to promote a better understanding of the different ways we think, i.e., in images. According to Lankton, the self-image thinking structure is a series of conditioned past associations of images related to self that guide our behavior. The first step in disrupting past associations and developing new associations is the ability to consciously use imagery.

OBJECTIVE: My main objectives were to assess the children's primary representational system, their ability to imagine in various modalities, and their ability to cross-over modalities. The ability to imagine in all modalities and to cross-over modalities is necessary for developing the CSI and for bringing the CSI through stressful times.

APPROACH: In this session art work was interspersed with imagery techniques in order to retain the children's attention. Initially the subjects were guided through an awareness continuum in order to focus their awareness on present experience. In order to assess their ability to imagine in the various modalities they were asked to:

1. Draw a picture of something in their house(visual image).
2. Imagine a phone ringing (auditory image).
3. Imagine pushing against a wall (kinesthetic image).

Assessment of the primary representational system involved guiding them through a fantasy of climbing a flight of stairs with a door at the top. This was followed by discussion and drawings.

The children were then guided through Gordon's Test of Imagery Control (Appendix D) in order to assess their ability to control their images.

Each section was followed by discussion and an attempt was made to integrate the different ways we think.

SESSION 2

CONTENT: In this session the focus was on developing a CSI which is a visual picture of self. This necessitates concentrated awareness (involved state), the ability to look at oneself objectively (uninvolved state), and the ability to get a picture of self in one's mind and step in and out of that picture.

OBJECTIVE: My main intent was to integrate last week's session on images with self-image and to promote an understanding of the different ways we think about ourselves that we are not always consciously aware of. It was particularly important that the children understand that the intensity of feelings decreases when recalling negative experiences from the past. This enables us to think of different ways we could have acted, at times in the past, so we come out of the experience feeling good about ourselves.

APPROACH: This session was separated into four phases and an attempt

was made to use dramatic play with the imagery techniques.

1. In order to have the children experience an involved state and to retain their interest, they were asked to break into pairs. Each was given the opportunity to play the part of a snail. One member pretended they were to absorbed in something they could not see or hear what was going on. The other member was to get the first to react. After a few minutes they switched roles. Following this activity the children were asked to recall a time in the past when they were so completely absorbed in something they did not hear the phone ring or their mother call them.

2. The children were asked to get a picture in their mind of their favorite television show and to watch the characters on the screen. As they are watching, one character on the screen becomes them.

3. The third phase involved developing a clear picture in their mind of their self.

4. During the fourth phase they practiced stepping in and out of the picture; being in their shoes looking out their mind's eye and then stepping out and looking at their self as if they were on a television screen.

SESSION 3

CONTENT: The purpose of this session was to add positive characteristics and another person to the visual picture of self, developed in the last session.

OBJECTIVE: My primary objective was to have the children recall positive experiences from the past and to associate the positive feelings to the visual picture. If successful, they would be able to access the positive feelings as soon as they perceived the visual picture.

APPROACH: In the previous sessions, it was apparent that the children distracted each other during the imagery techniques. Since this phase was crucial for structuring a positive self-image, I worked with two children at a time. The other children drew pictures related to their experiences during a centering exercise (Hendricks and Roberts, 1977) that initiated the session.

The sequence of steps necessary for adding positive characteristics to the picture of self were:

1. Recalling various experiences from the past when they were happy, confident, and secure.
2. Kinesthetically anchoring the experiences to the visual picture.
3. Changing the visual picture to fit the experiences.
4. Adding another person, who would support the child's feelings, to the visual picture.

At the end of the session the children were asked to draw pictures reflecting the positive feelings and the positive memories that were accessed during the individual work.

SESSION 4

CONTENT: The intention of this session was to build habit patterns by bringing the CSI through various scenes from pleasant to increasingly more stressful.

OBJECTIVE: My main objective was to teach the children to use the first indication of stress for bringing in the CSI.

APPROACH: This session consisted of four phases:

1. Relaxation exercise.
2. Integration of the major concepts from the previous sessions, i.e., recalling the CSI with the positive feelings and the other person to support the feelings, and stepping in and out of the visual picture.
3. During the relaxation exercise the subjects were asked to recall and bring the CSI through various pleasant scenes. The same procedure was followed for routine scenes such as, having breakfast, going to school, talking to friends, and talking to the teacher.
4. During the fourth phase, the group was separated into two. Working with three children at a time, each was guided through increasingly more stressful scenes.
5. The last phase consisted of teaching the children to bring in the CSI at the first sign of stress.

SESSION 5

CONTENT: The purpose of this session was to shape perceptions with emanated imagery; i.e., bringing the CSI through various scenes in the future where desired goals have been achieved.

OBJECTIVE: My main objectives were to have the children: a) perceive obstacles in a positive light, as necessary steps toward achieving a goal, and b) use the CSI as a guide while they were working toward a goal.

APPROACH: This session began with a relaxation exercise during which the children were guided through the following steps:

1. Run over, in your mind, some time in the future, when you have completed a goal you would like to work for. Put in everything you want to have - the people you want, interacting in the way you want, with all the positive feelings you want to have. Stay there awhile.

2. Think back through all the steps it took to get there.

3. Picture the roadblocks on the way. They will not be roadblock anymore, just memories of the things you had to go through to get to your goal; and now you can see and feel the positive experiences in each roadblock.

This sequence was repeated for a number of goals.

University of Alberta Library



0 1620 0403 2981

B30363